

Abstract of Disclosure:

In a pre-process, a particle shape substance is decomposed and removed using a cyclone and an electric dust collection apparatus, NO_x in an exhaust gas is decomposed completely using discharge, to establish technique
5 for generating NO₂ for necessary to oxidize a particle shape substance in a real time. The generated NO₂ and ozone and active oxygen generated the particle shape substance is decomposed completely. NO₂ for necessary to the particle shape substance is generated and is processed in response to
10 operation condition of an engine.

[Selection Figure] Fig. 1